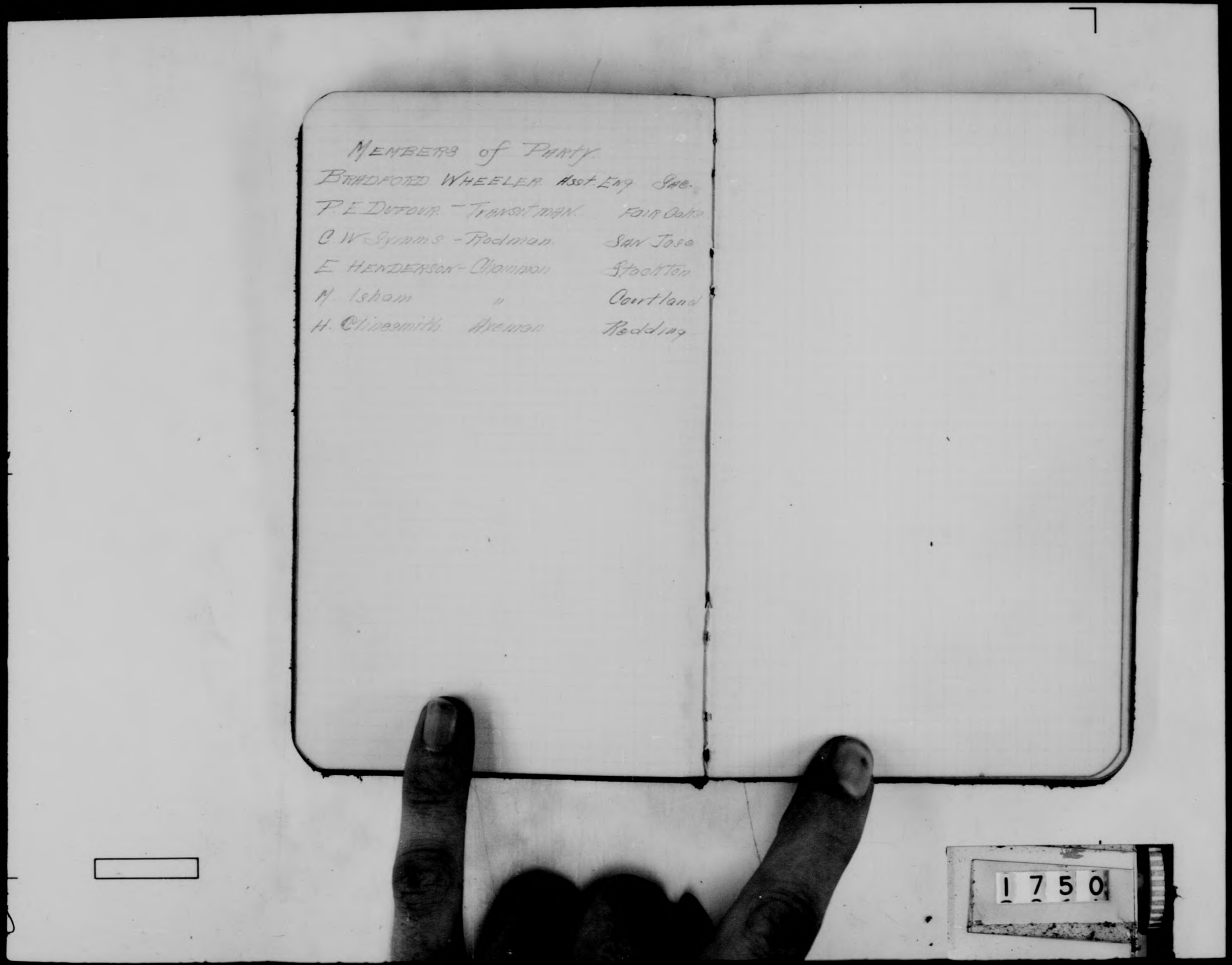
1749


MEMBERS of PARTY.

BRADFORD WHEELER Asst. Eng. Sac.

P. E. DUFOUR - TRANSITMAN FAIR OAKS

C. W. SIMMS - Rodman SAN JOSE

E. HENDERSON - Chainman STOCKTON

M. Isham " Courtland

H. Clinesmith Axeman Redding

1750

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PROPERTY LINES.

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Wise - Locke " " " 29.
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Locke - Dist #551 " " " 32
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16" C.I. pipe at Sta E 637+76 " 24
16" C.I pipe at Sta E 650+15 " 25

1751

Pipe line on Pringle's place

Sta	Grade Elev L	Elev R	Cut L	Cut R
1+14	21	63	65	32	42
1+00	25	64	65	32	41
0+80	25	64	62	32	35
0+50 E 654+51.2	31	64	61	32	30
0+00 = 653+17	33	63	61	32	30

Pages / ~~To~~ Used In Final Estimate No 124.

E 654+61.2 Cr pipe 24" pipe

L. C R

Reference points E 654+51.2

147 — 150 — 70

plan of Trench

+42 +41 +43 +32 +36

1+46 1+00 0+80 0+50 0+00

+32 +32 +32 +32 +32

Grade of pipe showing crown

0+00 0+50 1+00

7 my 5-31-12

1752

Nov 1907 2

Pipe line on Johnston Estate E 6+0 Tube

Notes used in Final Estimate

Sta	Grade	Elev L	Elev R	Cut L	Cut R

FMY 6-3-12

Water Level of Ground water 13

1+14	15	51	49	3 3	3 1
1+00	19	52	50	3 3	3 1
0+50	25	55	49	3 1	2 4
0+00	27	75	72	4 8	4 3

Pages 2 ~~1e~~ Used In
Final Estimate Item No 126

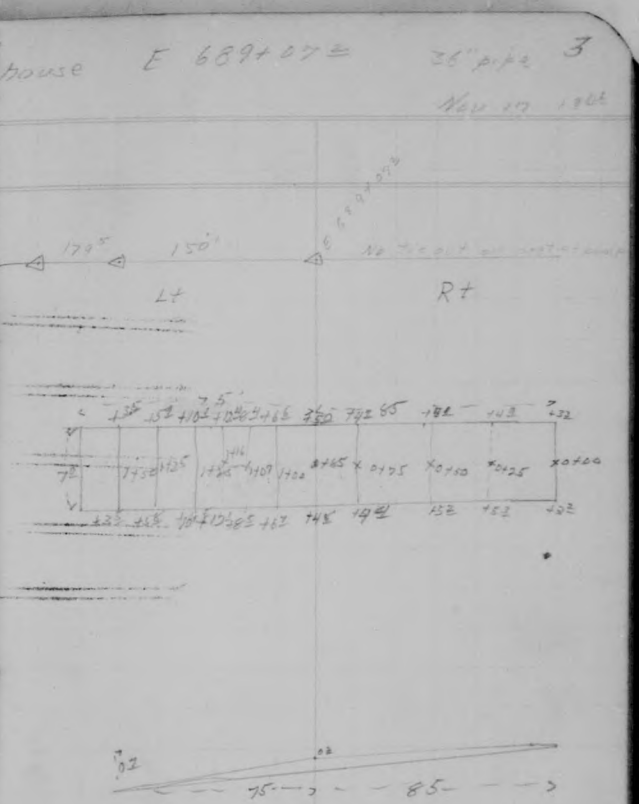
1753

Pipe line on Johnston Estate for Pump house E 689+07 ± 24" pipe 3

May 17 1912

Sta	Elev L	Elev R	Grade	Cut L	Cut R
	6.5	6.5	3.0	3.5	3.5
1+25	7.8	8.8	3.7	5.9	5.7
1+25	13.2	13.3	3.2	10.1	10.1
1+16	15.4	15.7	3.3	12.1	12.4
1+09	11.8	11.7	3.3	8.5	8.4
1+00	10.1	10.1	3.4	6.7	6.6
E 689+12					
0+85 Δ	8.3	8.5	3.5	4.8	5.0
0+75	7.9	8.2	3.5	4.4	4.7
0+70	8.8	8.7	3.6	5.2	5.1
0+25	9.0	8.6	3.7	5.3	4.9
0+00	6.9	7.0	3.7	3.2	3.3
Pump ho			3.8		

Pages 3 ~~To~~ Used In Final Estimate No 38



FMJ 5-31-12

1754

Pipe line on Tennston Estate E 7447

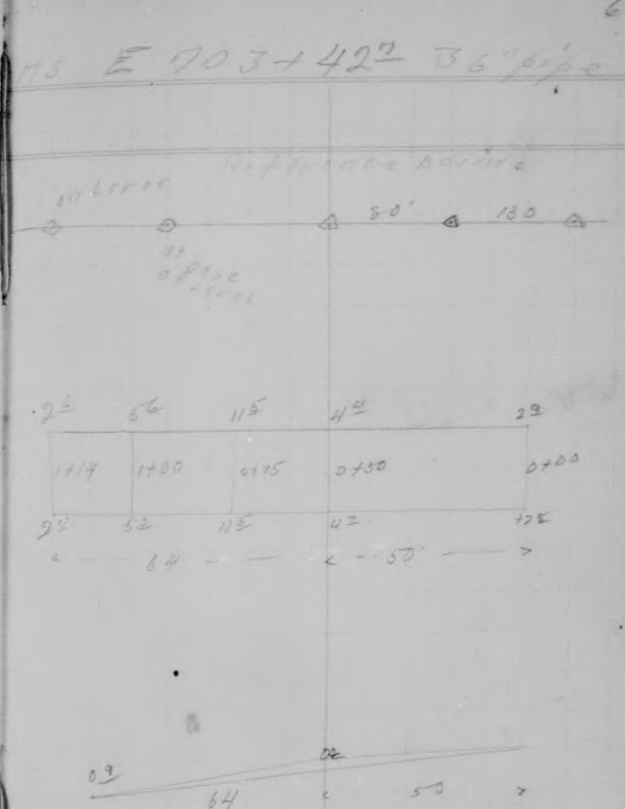
	E L	E R	Grade	C L	C R

Pipe on Johnston Estate

	EL	ER	Grade	C1	C+

Pipe line at Johnstons E 703+42 36" pipe

	E.L.	Δ ℄	Grade	C L	C R
1+14	41	4°	14	2.7	2.6
1+00	7.0	7°	15	5.5	5.6
			18	1.5	1.5
	6.8	6.5	21	4.7	4.4
	5.1	5.2	23	2.8	2.9



1757

Pipe Line at Johnston Estate

Sta	ER	EL	Grade	CR	CL
0+80	5.6	5.7	3.00	2.6	2.7
0+60	8.5	8.3	3.20	5.3	5.1
0+40	8.3	8.4	3.50	4.8	4.9
0+20 Connection	6.3	6.8	3.80	2.5	3.0
0+20	5.1	5.5	3.90	1.5	1.6
0+00	4.6	5.5	4.000	0.6	1.5

7

E 1+82+42 36" Pipe July 17 1912.

Ditch 7' wide

Connection Reference points: 80' 130

Pages 7 To Used In
Final Estimate No 1/0

JMY 5-31-12

1758

Pipe at E 617+58.

24" Pipe
Trench 6' wide

Nov 4th 1917.

Notes used in Final Estimate

Sta	Grade	Elev R	Elev L	Cut R	Cut L
0+82	45	69	67	24	22
0+70	47	67	65	20	18
0+60	48	68	68	17	19
0+50	51	70	67	18	16
0+36	54	72	7.2	18	18
0+30	53	75	74	22	21
0+20	52	80	80	28	28
0+10	51	77	81	2.6	30
0+00	50	7.8	7.9	28	29

Pages 8 to — Used In Final Estimate Item No 1/16.

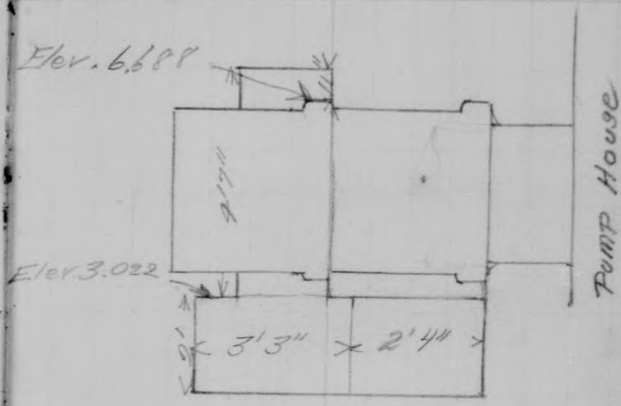
= E 617+58

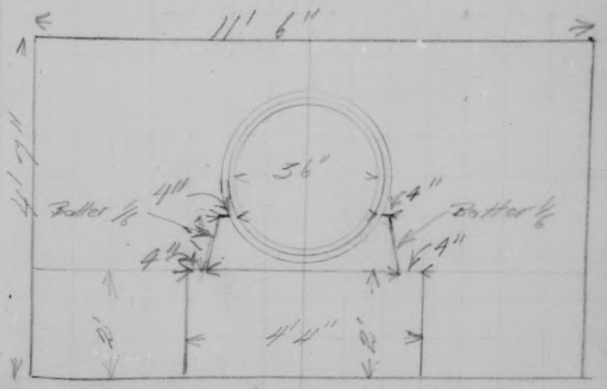
F.M.Y. 5-31-12

1759

End Wall Sta E 689+07.2

Jan. 2 - 1908





Barrels of Cement used 5½

1760

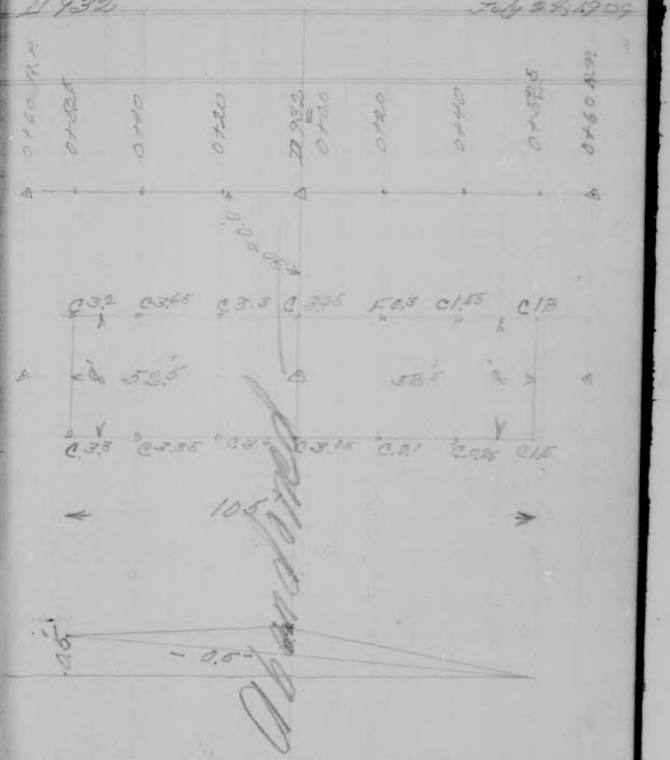
36" cast iron Drain Pipe at

Sta.	Grade	Elev. Rt	Elev Lt	Out Rt	Out Lt
0+525	2.0	3.5	3.8	1.5	1.8
0+440	2.05	3.9	3.6	0.86	1.55
0+420	2.1	2.2	1.8	0.1	F-0.3
0+0.0	2.15	5.2	5.6	3.05	3.45
0+420	1.9	5.5	5.2	3.6	3.3
0+440	1.65	5.0	5.3	3.35	3.65
0+525	1.5	4.8	4.7	3.3	3.2

Total length 105'
Number of joints 36-36" x 3'
Flap valves 2, -1 bellend, -1 spigot end.
Elev. 2.0
Grade -0.5-
Crown 0.4
Excess allowed for joints .0909 per joint Total 3'
Elev. water in Larrow pit 1.3 ft. July 24, 09
Elev. water in Edwards 2.6 ft " "

11

July 24, 1909



P.E.D.

1761

FRANK KINGS BRIDGE

OVER ELK SLOUGH

Elev Assumed

H.I. 272

Levels

6 - 1½ x 9' stringers

4 - 1½ x 9' stringers

12

JAN. 7, 04

8x8

52'

5" plank floor

12.6

3 pile bents

Water Line

1762

24" Drain Pipe at Sta. D 777+0.0

	Elev. Lt	Cut	Elev. Rt	Cut
D777+00 Δ				
= 0+0.0				
0+319	5.8	3.1	5.8	3.1
0+40	5.7	2.9	5.7	2.9
0+20	5.6	2.6	5.6	2.6
D777+00 Δ				
= 0+0.0	5.5	2.35	5.5	2.35
0+20	5.4	2.3	5.4	2.3
0+40	5.5	2.5	5.6	2.5
0+51.25	5.6	2.6	5.6	2.6

Pages 14 To Used In Final Estimate No. 149

14

November 21, 0[illegible]

Total length 109.75 ✓
33 - 3' - 24" cast iron pipe ✓
2 - 24" flap valves
Elev. 5.0 - SACRAMENTO Southern Datum
Grade — .03
Crown 0.3
Profile Grade 2.3 2.84
Excess allowed for joints 0.05

7 M.V. 5-31-12

1763

Ditch Line opposite D 777+00 November 26, 1912

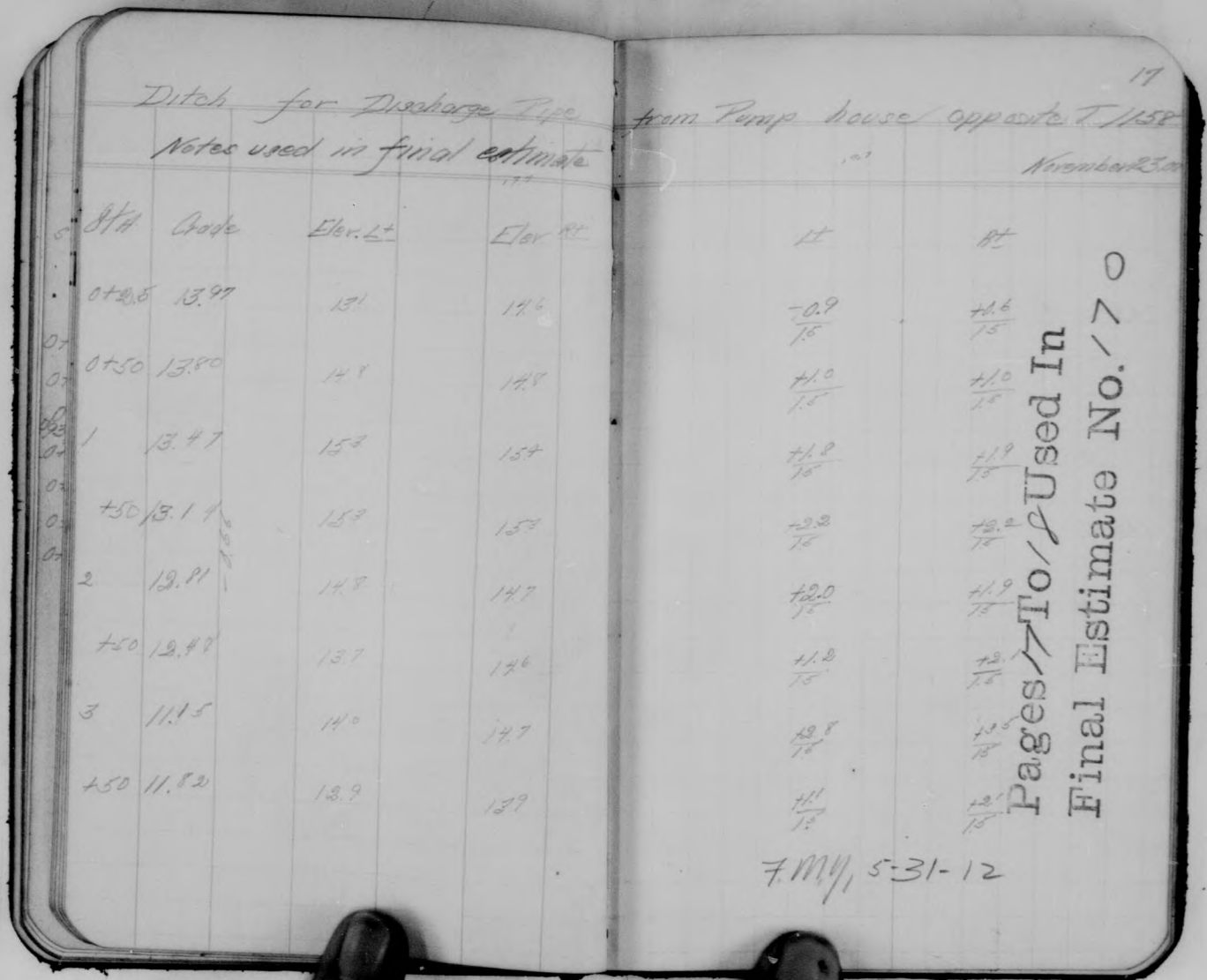
Sta	Elev
D 777+00 & 90°00 Rt.	5.5
0+00	
0+51.8	5.6
0+54.6 ± E.O.	5.7
0+70	5.8
0+90	5.8
1+10	5.9
1+36.4 ± E.C.	5.8
(H 36.2) ± E.C. (Coin. F.W.J.)	5.9
2	5.9
3	5.8
4	5.6
5	5.9
6	5.5
7	5.4
8	5.5
9	5.7
10	5.4
11	5.4

P.T. 49+77.7 (ST. 41+28) Johnson's
P.C. 49+41.9 = 0+00 Tan.
Tan. 0+00 = P.T. 49+77.7

1764

Sta			Elev.
0	12		5.7
	+3.5		6.2
	+6.3		6.1
0	+7.5.4 A	17°0.5 Lt	6.1
0	+8.5		5.0
0	13		4.6
0	15		4.0
0	16		4.0
0			
0			

1765



Ditch for Discharge Pipe from Pump house opposite T. 1158

Notes used in final estimate

November 23 1911

17

Sta	Grade	Elev. Lt	Elev Rt	Lt	Rt
0+20.5	13.97	131	146	-0.9 / 1.6	+1.6 / 1.5
0+50	13.80	148	148	+1.0 / 1.5	+1.0 / 1.5
1	13.47	153	154	+1.8 / 1.5	+1.9 / 1.5
+50	13.14	153	153	+2.2 / 1.4	+2.2 / 1.4
2	12.81	148	147	+2.0 / 1.5	+1.9 / 1.5
+50	12.48	137	146	+1.2 / 1.5	+2.1 / 1.4
3	11.15	140	147	+2.8 / 1.6	+2.0 / 1.5
+50	11.82	139	139	+1.1 / 1.5	+2.1 / 1.6

Pages 1 To 7 Used In Final Estimate No. 1 7 0

F. M. H. 5-31-12

1766

Sta	Grade	Elev Lt	Elev Rt	Lt	Rt
4	11.50	13.2	13.9	+1.7 / 15	+2.4 / 15
+03.4	11.46	13.4	14.2	+1.9 / 15	+2.5 / 15
+50	10.91	10.1	9.9	-1.8 / 15	-1.0 / 15
5	10.32	10.6	10.5	+0.3 / 15	+0.2 / 15
+30	9.97	10.8	10.7	+0.8 / 15	+0.2 / 15
+31.6					

Beginning of 24" cast iron pipe

FMY, 5-31-12

1767

24" Cl. Pipe Sta "T" 1158+00

		Lt.	C	Rt.
0+41.6		+1.2 2.0		+1.1 2.0
0+20		+0.5 2.0		+0.4 2.0
"T" 1158+00		+0.2 2.0		+0.4 2.0
0+0.0	90°00 Rt.			
0+20		+0.4 2.0		+0.4 2.0
0+31.1		+0.5 2.0		+0.3 2.0

Pages 1 To Used In
Final Estimate No. 16

1768

Pages To Used In Final Estimate No. 11

36" C.I. Pipe Culvert, Sta "T" 1156

Sta.		Lt	C	Rt
0+513		+2.4 / 3.0	+2.4	+2.5 / 3.0
0+482	Rt	+2.4 / 3.0	+2.4	+2.6 / 3.0
0+25		+2.4 / 3.0	+2.5	+2.5 / 3.0
0+00 90° Rt / 1156+0.0		+2.0 / 3.0	+2.1	+2.1 / 3.0
0+65		+1.9 / 3.0	+1.9	+1.9 / 3.0
0+25	Lt	+2.6 / 3.0	+2.8	+2.7 / 3.0
0+50		+2.6 / 3.0	+3.1	+3.3 / 3.0
0+613		+2.8 / 3.0	+4.0	+4.0 / 3.0

1769

Drainage Ditch from opposite Sta "E"660 to opposite Sta E 671

Sta	ditch 2 ft. wide.	Lt	℄	Rt
				No Slope
660		+3.2 1.0		+4.5 1.0
661		+3.2 1.0		+3.3 1.0
662		+2.5 1.0		+1.8 1.0
663		+1.2 1.0		+1.6 1.0
664		+1.8 1.0		+0.8 1.0
665		+1.1 1.0		+0.9 1.0
666		+2.6 1.0		+3.2 1.0
667		+2.1 1.0		+2.7 1.0
668		+2.5 1.0		+2.7 1.0
669		+1.5 1.0		+1.5 1.0
670		+1.3 1.0		+1.4 1.0
671			0.0	

Pages 2/To Used In
Final Estimate No 12 7-/30.

1770

Drainage Ditch from opposite "E" 650 to "E" 654+50

Pages 22 To Used In Final Estimate Item No/22.

650
651
652
653
654
654+50

22

Lt.	C	Rt
1½ ft wide.		No slope
+3.0		+3.2
0.75		0.75
+2.5		+2.8
0.75		0.75
+1.3		+1.4
0.75		0.75
+0.8		+1.0
0.75		0.75
+0.5		+0.3
0.75		0.75
+2.9		+3.3
0.75		0.75

1771

Excavation for Drain Pipe at E 627+15. 16" dia C.I. Pipe
Ditch 4 feet wide. E 627+15 = 0+00

	Lt.	℄	Rt.
0+52.	2.8 / 2.		2.8 / 2
0+00.	3.4 / 2.		3.4 / 2.
0+52.8	4.1 / 2.		4.1 / 2.

copied from Estimate Sheet 8-17-12.

Pages 23 to Used In Final Estimate No 118.

1772

Excavation for 16" C.I. Pipe at Sta. E" 637+76 = 0+00.
Ditch 4 foot wide

	Lt.	℄	Rt.
0+50±	4.2 / 2.0		4.2 / 2.0
0+00	4.7 / 2.1		4.7 / 2.
0+51.3	5.0 / 3.		5.0 / 2.1

Copied from Estimate Sheet
8-17-12.

Pages 24 To Used In
Final Estimate No 120.

24

1773

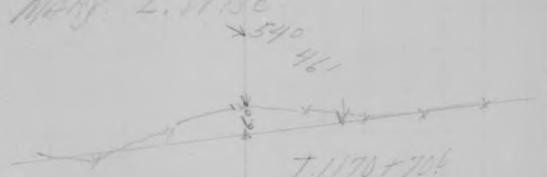
Excavation for 16" C.I pipe at Sta. "E" 650+01.5 = 0+00.
Ditch 4 feet wide.

	Lt. ℄	Rt.
0+49.2	4.0 2.	4.0 2.
0+00	4.0 2.	4.0 2.
0+51.9	4.2 2.	4.2 2.

Copied from Estimate Sheet 8-17-12

Pages 25 To Use in Final Estimate No 123.

Property Line Between Mary L. Wise and O.W. Locke



O. W. Locke

This property line was obtained by intersecting the T line and the general line of fence.

RE-2

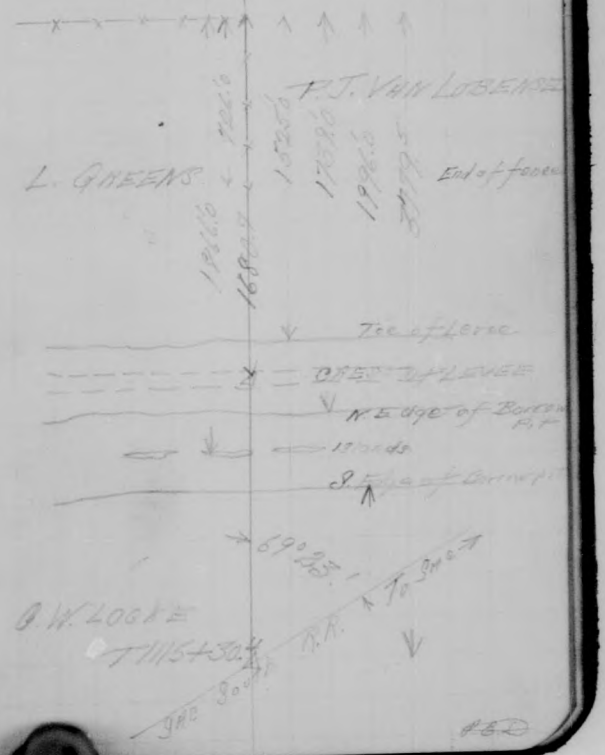
1775

98

PROPERTY LINE BETWEEN O.W. LOOKE & R.J. VAN LOBENSEL

This property line was obtained by producing the fence line between L. Greens and P.J. VAN LOBENSEL and intersecting it with the I" line

A EASTMANS



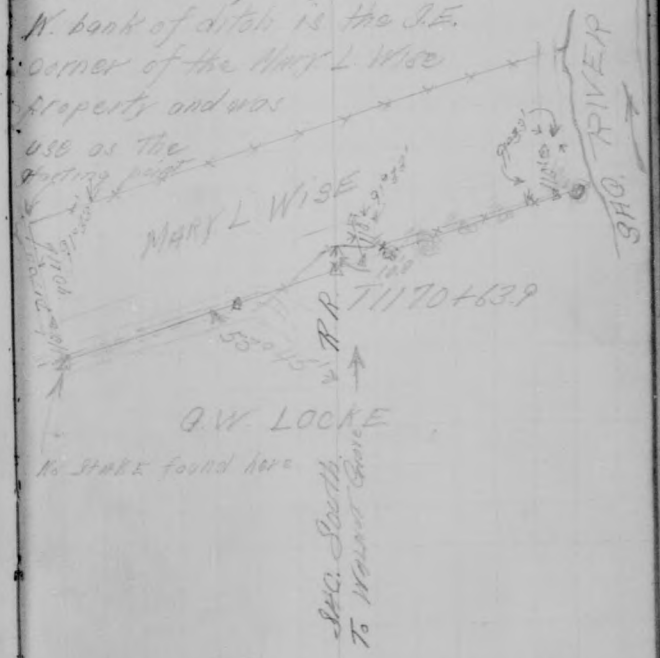
1776

Property Line Between Mary L Wise & Q.W. Locke.

March 16, 1902.

This property line was obtained by chaining 7.11 ch. from the S.W. corner and locating the S.E. corner — Owing to the large amount of brush also offset was taken.

Intersection of S. fence with W. bank of ditch is the S.E. corner of the Mary L Wise property and was use as the starting point



99°

1777

OFFSET LINE to LOCATE

Center of Dramage Ditch
Sta D1166+37 Bearing S89°36'E
is North Boundary of
Swamp Land Survey 1000

30°

S. BOUNDARY of S.L. Survey 1000

March 9-1955

D1166+22 ℄ 150' 36 S 89°36' E
DRAINAGE DITCH ℄
D1164+57
1008.88

BG 1+24
2+85
16+30
23+00
M° 9+34.8
10°00'
S 89°36' E
33+33.0
D1164+23.6
1136+34.8
EQ 1+24

1778

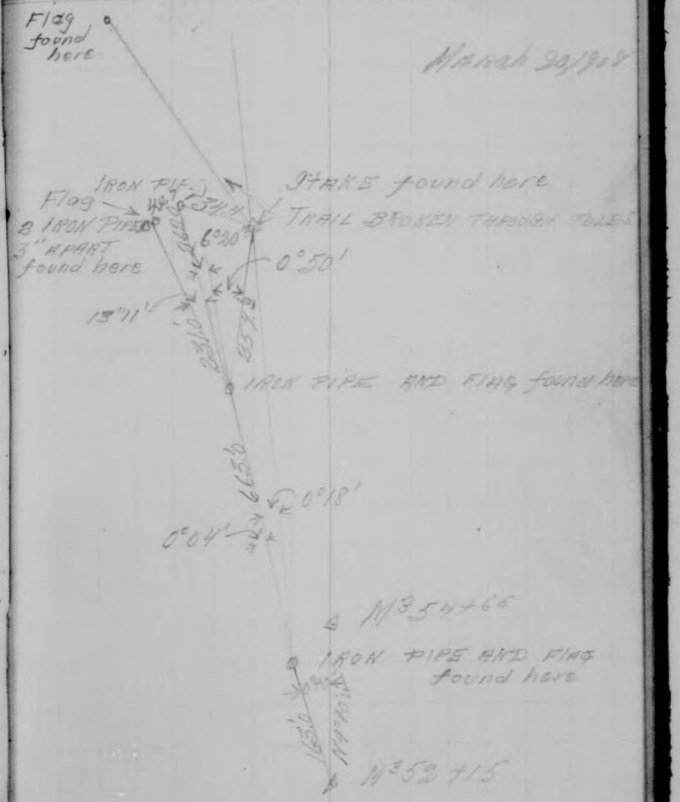
LINE RUN TO LOCATE VARIOUS FLAGS AND IRON PIPES

Supposed to be portion of E. line of the Additional Strip of land

REQUIRED for USE of Dist. 551.

31°

March 30/1908

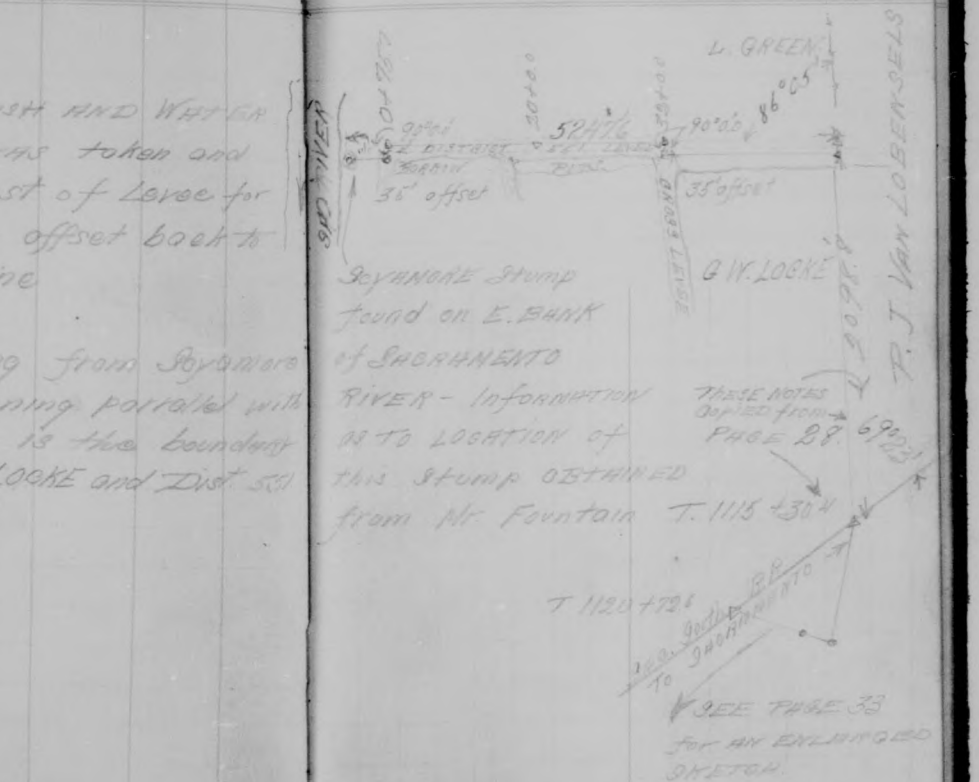


1779

PROPERTY LINE BETWEEN G.W. LOOKE AND DIST. 551

Owing to BRUSH AND WATER a 35' offset was taken and line run on crest of Levee for 3200 ft. then offset back to original line

Note - Starting from Sycamore Stump and running parallel with S. toe of levee is the boundary line of G.W. LOOKE and Dist. 551

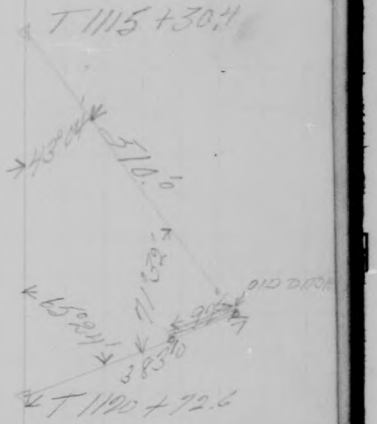

L. GREEN
86°05'
90°00'
35' offset
SACRAMENTO RIVER
G.W. LOOKE
P.J. VAN LOBENSELS
Sycamore Stump found on E. BANK of SACRAMENTO RIVER - Information as to location of this stump obtained from Mr. Fountain
T. 1115 +30.4
T 1120+72.6
THESE NOTES COPIED FROM PAGE 28
SEE PAGE 33 FOR AN ENLARGED SKETCH

1780

33

Offset to locate portion of A.W. Locke-VanLabensel PROPERTY LINE

March 21, 1941



Stakes set near old ditch and pointed out by Mr Fountain as part of property line

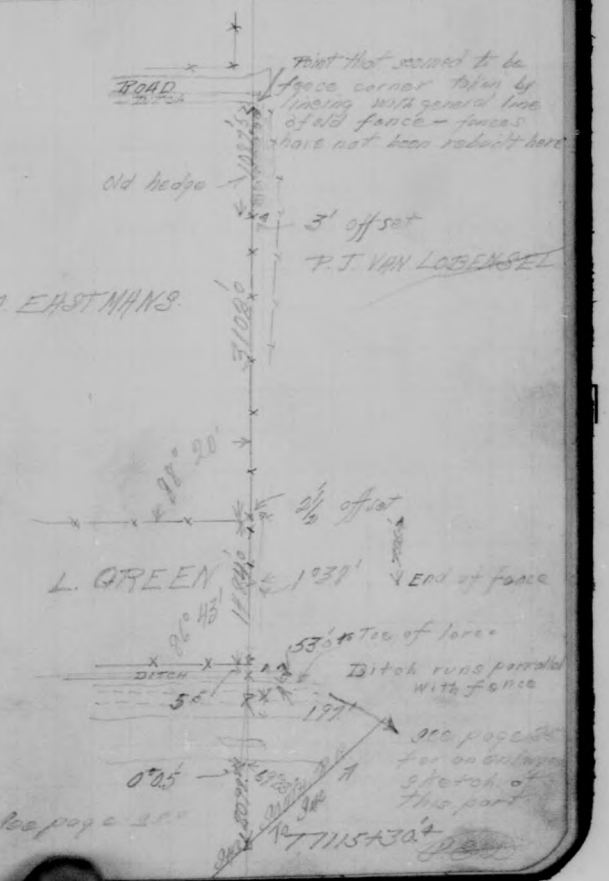
1781

PROPERTY LINE BETWEEN A EASTMAN and P J VAN LOBENSELS

Mr A Eastman claims that original fence was placed 3' inside of the property line at the N.W. corner and 2'6" at the S.E. corner

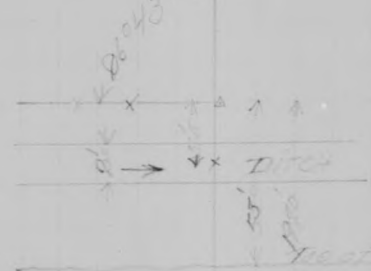
Starting from N.W. corner the fence for 1097.5 has not been rebuilt and line is difficult to retrace.

N6½°W Mag. East



1782

L. GREEN | F.J. VAN LOSENSEE



A.W. Looks

See page 34

1783

Property Line between S.P.Co.

Field Notes copied from Original Cross Section of Borrow Pit Book #8, page 31. H.W.M. 8/27/12
Date of survey not given.

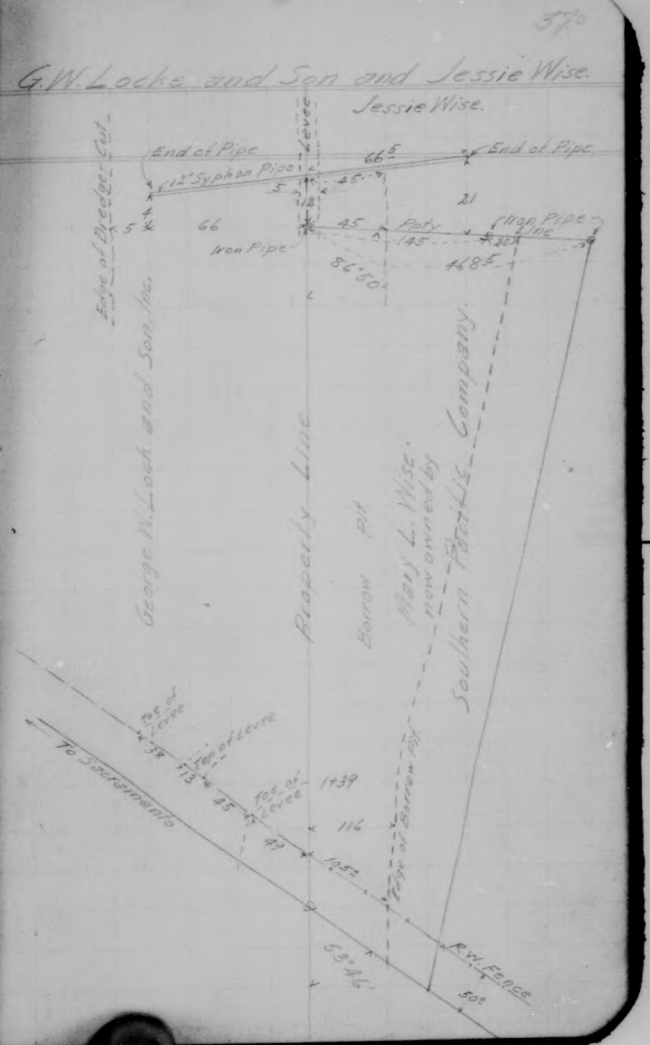
10+53.5 Corner: Iron Pipe, Ppty Line

1+39

1+00

0+00 = T 1170+62.5 Property Line △ on Tang.

G.W. Locke and Son and Jessie Wise.



1784

Water Supply for Station Buildings at Hood.

Field Notes taken Nov. 15, 1912 by E.P. Griffith. H.V.M. Dec. 3, 1912.

728+50

728+48

727+33.2

726+35.5

Well with 12 ft. Mill with 67 bbl Tank on 50 ft. Steel Tower

well

10"

411 Feet

R.W. Fence

90°

1" Pipe to Section House

418

924 Feet

90°

1" Pipe to Cook + Bunk House

10"

535

E. Line & Sacramento Southern Railroad

To Walnut Grove

1785

Water Supply for Station Buildings at Walnut Grove

Field Notes taken Nov. 15, 1912
by E.P. Griffith. H.H.M. Dec 3, 1912

Well with 12ft. mill and 6.7 Bbl.
Tank on 70ft. Steel Tower.

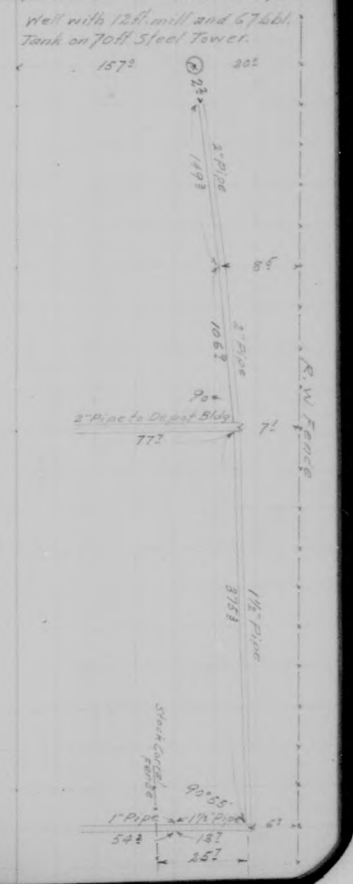
1439+00

1438+77.2

1437+49.2

1436+12

1435+71.2



1786

Sta	+9	II	-9	Elev
	5.115	12.548		7.433
680			Ro	
681				
682				
683				
684				
685				
686				
687				
688	4.818	12.058	5.300	7.248
689				
690				
691				
692				
693				
694				
695				

Bank RW		RW	
Rod	Elev	Rod	Elev
4.6	7.9	4.9	7.6
5.6	6.9	4.8	7.7
4.6	7.9	4.6	7.9
6.0	6.5	7.2	5.3
6.9	5.6	7.3	5.2
6.6	5.9	6.5	6.0
6.4	6.1	6.4	6.1
6.3	6.2	6.2	6.3
5.6	6.9	5.5	7.0
5.5	6.6	5.5	6.6
5.7	6.4	5.7	6.4
5.6	6.5	5.3	6.8
5.8	6.3	5.8	6.3
6.3	5.8	5.5	6.6
5.2	6.9	4.9	7.2

1787

18
L
R
47
689
2.870
18.018
670
671
1788

Sta	+ S	H.I	- S		Elev
	8.060	27.660			19.60
	2.488	25.553	4.595		23.065
	6.480	28.183	3.800		21.703
	1.920	23.133	6.970		21.213
	3.895	13.948	12.260		10.873
			7.260	6.688	
			10.850	3.098	
BM.	13.240	19.924	7.269		6.684
	4.375	15.329	8.970		10.954
			1.312		14.017
					14.011 Recheck
					Correct

Table IV.—Minutes in Decimals of a Degree.

1′	.0167	11′	.1833	21′	.3500	31′	.5167	41′	.6833	51′	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

Table V.—Inches in Decimals of a Foot.

1-16 .0052	3-32 .0078	1/8 .0104	3-16 .0156	1/4 .0208	5-16 .0260	3/8 .0313	1/2 .0417	5/8 .0521	3/4 .0625	7/8 .0729

1 .0833	2 .1667	3 .2500	4 .3333	5 .4167	6 .5000	7 .5833	8 .6667	9 .7500	10 .8333	11 .9167

Table VI.—Radii, Ordinates and Deflections.

Deg.	Radius	Mid Ord	Tan Def.	Chd Def	Def for 1 Foot	Deg.	Radius	Mid Ord.	Tan Def.	Chd Def.	Def for 1 Foot
0° 10′	34377.	.036	.145	.291	0.05′	7°	819.0	1.528	6.105	12.21	2.13
20′	17189.	.073	.291	.582	0.10	20′	781.8	1.600	6.395	12.79	2.20
30	11459.	.109	.436	.873	0.15	30	764.5	1.637	6.540	13.08	2.25
40	8594.4	.145	.582	1.164	0.20	40	747.9	1.673	6.685	13.37	2.30
50	6875.5	.182	.727	1.454	0.25	8	716.8	1.746	6.976	13.95	2.40
1	5729.6	.218	.873	1.745	0.30	20	688.2	1.819	7.266	14.53	2.50
10	4911.2	.255	1.018	2.036	0.35	30	674.7	1.855	7.411	14.82	2.55
20	4297.3	.291	1.164	2.327	0.40	40	661.7	1.892	7.556	15.11	2.60
30	3819.8	.327	1.309	2.618	0.45	9	637.3	1.965	7.846	15.69	2.70
40	3437.9	.364	1.454	2.909	0.50	20	614.6	2.037	8.136	16.27	2.80
50	3125.4	.400	1.600	3.200	0.55	30	603.8	2.074	8.281	16.56	2.85
2	2864.9	.436	1.745	3.490	0.60	40	593.4	2.110	8.426	16.85	2.90
10	2644.6	.473	1.891	3.781	0.65	10	573.7	2.183	8.716	17.43	3.00
20	2455.7	.509	2.036	4.072	0.70	30	546.4	2.292	9.150	18.30	3.15
30	2292.0	.545	2.181	4.363	0.75	11	521.7	2.402	9.585	19.16	3.30
40	2148.8	.582	2.327	4.654	0.80	30	499.1	2.511	10.02	20.04	3.45
50	2022.4	.618	2.472	4.945	0.85	12	478.3	2.620	10.45	20.91	3.60
3	1910.1	.655	2.618	5.235	0.90	30	459.3	2.730	10.89	21.77	3.75
10	1809.6	.691	2.763	5.526	0.95	13	441.7	2.839	11.32	22.64	3.90
20	1719.1	.727	2.908	5.817	1.00	30	425.4	2.949	11.75	23.51	4.05
30	1637.3	.764	3.054	6.108	1.05	14	410.3	3.058	12.18	24.37	4.20
40	1562.9	.800	3.199	6.398	1.10	30	396.2	3.168	12.62	25.24	4.35
50	1495.0	.836	3.345	6.689	1.15	15	383.1	3.277	13.05	26.11	4.50
4	1432.7	.873	3.490	6.980	1.20	30	370.8	3.387	13.49	26.97	4.65
10	1375.4	.909	3.635	7.271	1.25	16	359.3	3.496	13.92	27.84	4.80
20	1322.5	.945	3.781	7.561	1.30	30	348.5	3.606	14.35	28.70	4.95
30	1273.6	.982	3.926	7.852	1.35	17	338.3	3.716	14.78	29.56	5.10
40	1228.1	1.018	4.071	8.143	1.40	18	319.6	3.935	15.64	31.29	5.40
50	1185.8	1.055	4.217	8.433	1.45	19	302.9	4.155	16.51	33.01	5.70
5	1146.3	1.091	4.362	8.724	1.50	20	287.9	4.374	17.37	34.73	6.00
10	1109.3	1.127	4.507	9.014	1.55	21	274.4	4.594	18.22	36.44	6.30
20	1074.7	1.164	4.653	9.305	1.60	22	262.0	4.814	19.08	38.16	6.60
30	1042.1	1.200	4.798	9.596	1.65	23	250.8	5.035	19.94	39.87	6.90
40	1011.5	1.237	4.943	9.886	1.70	24	240.5	5.255	20.79	41.58	7.20
50	982.6	1.273	5.088	10.18	1.75	25	231.0	5.476	21.64	43.28	7.50
6	955.4	1.309	5.234	10.47	1.80	26	222.3	5.697	22.50	44.99	7.80
10	929.6	1.346	5.379	10.76	1.85	27	214.2	5.918	23.35	46.69	8.10
20	905.1	1.382	5.524	11.05	1.90	28	206.7	6.139	24.19	48.38	8.40
30	881.9	1.418	5.669	11.34	1.95	29	199.7	6.360	25.04	50.07	8.70
40	859.9	1.455	5.814	11.63	2.00	30	193.2	6.583	25.88	51.76	9.00

1789